Message

From: Tabor, Dennis [Tabor.Dennis@epa.gov]
Sent: 3/11/2019 7:23:30 PM
To: Ryan, Jeff [Ryan.Jeff@epa.gov]
Subject: RE: Native Spikes

May not get to it before I leave tomorrow but it is only my to do list.

Thanks,

Dennis Tabor
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USEPA Attn: Dennis Tabor
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From: Ryan, Jeff
Sent: Monday, March 11, 2019 3:22 PM
To: Tabor, Dennis <Tabor.Dennis@epa.gov>
Subject: RE: Native Spikes

OK – I took that table out of Mark's SOP or QAPP.

I was looking at the Wellington stuff last week trying to reconcile as well. Mainly, I want to cast as big a net as possible when we do our extraction studies. I didn't have the time to sort it all out.

It would help if you were to look at the what wellinfgton has to offer and:

Identify the different types of PFAS compounds that are out there. Acids, sulfonates, amides, phosphontates and what we're missing/should consider including.

What labeled compounds have multiple versions. We know PFOA, PFOS – anything else? I want to figure what our pool for presampling surrogtaes could be. Open to other suggestion as well.

From: Tabor, Dennis
Sent: Monday, March 11, 2019 3:13 PM
To: Ryan, Jeff <Ryan.Jeff@epa.gov>
Subject: Native Spikes

Jeff in the unlabeled work there was only a few of the ones you listed

Native Perfluorinated Carboxylic Acids and Perfluoro Sulfonate Spike
A solution of Perfluorinated compounds was provided by Mark Strynar. They included the C4-C10 PFCAs and the C4-C8 PFSs. The method development experiments before the St. Gobain samples were done with this mix and 500ng of each compound was spiked into each spiked experiment.

So there were 7 PFCAs but only 3 of the PFSs only the even carbon.

Thanks,

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From: Ryan, Jeff
Sent: Thursday, March 07, 2019 12:30 PM
To: Tabor, Dennis <Tabor.Dennis@epa.gov>
Subject: And another thing ...

In the attached document, which is VERY much a work in progress, I took a stab at what I think are the unlabeled PFAS compounds you looked at as part of your recovery study work. Please look it over and see what if anything is missing. I would also like you to take a look at the Wellington catolgue and see what we're not including at this time so we can look into what all to consider.

From: Tabor, Dennis
Sent: Thursday, March 07, 2019 11:43 AM
To: Ryan, Jeff <Ryan.Jeff@epa.gov>
Subject: Recovery Results to Date FW: PFAS Recovery information from the First batch of St Gobain QX trains

Jeff,

This is what I sent you back in September. This is the only labelled isotope results from the spikes.

I can pull this together into a nicer format if you want. Let me know if you want me to. Also If I need to explain what I have done better verbally I would be happy to.

Remember that before the NH samples there were no Internal Standards Just comparing the areas of various runs. Do you want that?

Other than that, I have been given the area counts for the pre-sampling spike, pre-extraction spike and the pre-analysis Spike for the front Filter and XAD for the QX inlet and outlet. This is the attached xls file

This is not much data and there are samples ready to go to Ken and Mark. Hopefully, for calibration curve based analysis but I don't know if they have calibration curves with the isotope standards. I notified Mark on the 28th and he asked that I hold onto them until he was ready for them.

Thanks,

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USEPA Attn: Dennis Tabor
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From: Tabor, Dennis
Sent: Thursday, September 06, 2018 8:51 AM
To: Ryan, Jeff <Ryan.Jeff@epa.gov>
Subject: PFAS Recovery information from the First batch of St Gobain QX trains

Jeff,

In the St Gobain XAD and Filter samples we had three labelled compounds that were quantitated by Mark in the limited time that he had to process them for this meeting. A single labelled PFOA was used as a Pre-Analysis Spike(M2PFOA which had 13C2) , The semi-quantitated Pre-extraction Spike Included three compounds two Carboxylates (8 carbon and 5 carbon) and a Sulfonate. M8PFOA, M5PFPeA and M8PFOS. A different label of each of the Pre-extraction spikes was semi-quantitated the Pre-sampling spike, (The Naming pattern changed) MPFOA (13C4), M3PFPeA and MPFOS (13C4). The semi quantitation was done by comparing to a single point calibration solution / comparator.

In the Filter Samples the recovery of the Pre-Extraction spike was

		ID		PFOA	PFPeA	PFOS
Inlet	Filter	700	% rec	77	41	49

Outlet	Filter	800	% rec	82	53	101
MethD	Empty		% rec	88	89	111

In the Method development work (just based on an area comparison with a comparator) the recoveries from an empty soxhlet extraction were determined and listed as the third line above.

In the XAD Samples the recovery of the Pre-Extraction Spike and Method Development Spiked XAD blank comparison.

		ID		PFOA	PFPeA	PFOS
Inlet	XAD	702	% rec	47	31	32
Outlet	XAD	802	% rec	26	36	18
MethD	XAD		% rec	42	63	7

The recoveries of the Pre-sampling Spike (compared to the other label Pre-extraction Spike) was

		ID		PFOA	PFPeA	PFOS
Inlet	XAD	702	% rec	33	140	83
Outlet	XAD	802	% rec	35	70	59

There was not any labelled comparisons in the method development work.

The recoveries of the Pre-sampling Spikes that were compared to the Pre-Extraction labelled PFOA (not a similar compound)

		ID		PFDA	HFPO-DA
Inlet	XAD	702	% rec	99	39
Outlet	XAD	802	% rec	65	22

Thanks,

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